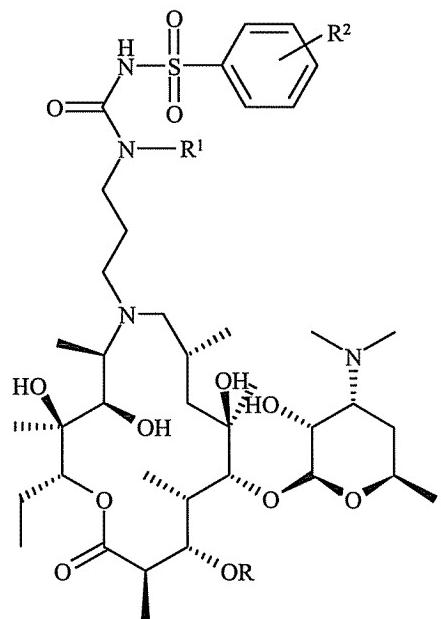


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

CLAIMS

1. (Currently amended) ~~Substituted 9a-N-[N'-(benzenesulfonyl)carbamoyl]-γ-aminopropyl] and 9a-N-[N'-(P-cyanoethyl)-N'-(benzenesulfonyl)-γ-aminopropyl]~~ derivatives of 9-deoxy-9-dihydro-9a-aza-9a-homoerithromycin A and 5-O-desesaminy-9-deoxy-9-dihydro-9a-aza-homoerithronolide A, novel semisynthetic macrolide antibiotics of the azalide series having antibacterial action of the general formula 1, A compound of formula 1



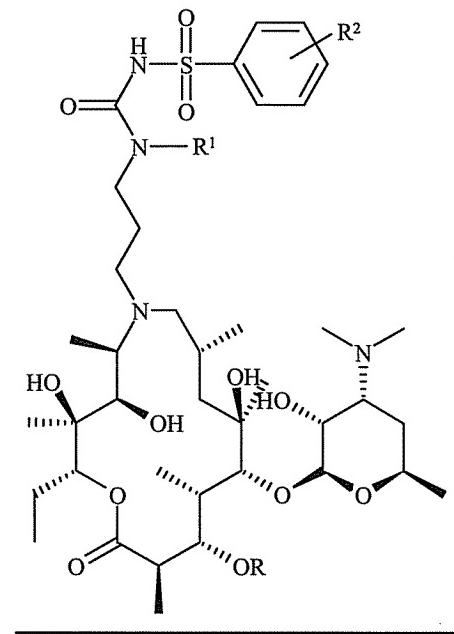
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wherein R represents H or cladinosyl moiety group, R¹ represents H or (3-cyanoethyl β-cyanoethyl moiety group and R² represents a substituent selected from the group consisting of H, or fluoro, chloro and methyl group, and or a pharmaceutically acceptable addition salts salt thereof.

2. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group and R1=R2 R¹ and R² represent H.
3. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents H and R2 R² represents 4-chloro group.
4. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents H and R2 R² represents 2-chloro group.
5. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents H and R² represents 4-fluoro group.
6. Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents H and R2 R² represents 4-methyl group.
7. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents H and R2 R² represents 2-methyl group.
8. (Currently amended) Substance A compound according to claim 1, characterized in that R=R'=R-2represent R, R¹ and R² represent H.
9. (Currently amended) Substance A compound according to claim 1, characterized in that R=Ri R and R¹ represent H and R2 R² represents 4-chloro group.
10. (Currently amended) Substance A compound according to claim 1, characterized in that R=Ri R and R¹ represent H and R2 R² represents 2-chloro group.
11. (Currently amended) Substance A compound according to claim 1, characterized in that R=R1 R and R¹ represent H, and R2 R² represents 4-fluoro group.
12. (Currently amended) Substance A compound according to claim 1, characterized in that R=R1 R and R¹ represent H, and R2 R² represents 4-methyl group.
13. (Currently amended) Substance A compound according to claim 1, characterized in that R=R'represent R and R¹ represent H, and R2 R² represents 2-methyl group.
14. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, Ri R¹ represents (3-cyanoethyl β-cyanoethyl group and R-R² represents H.

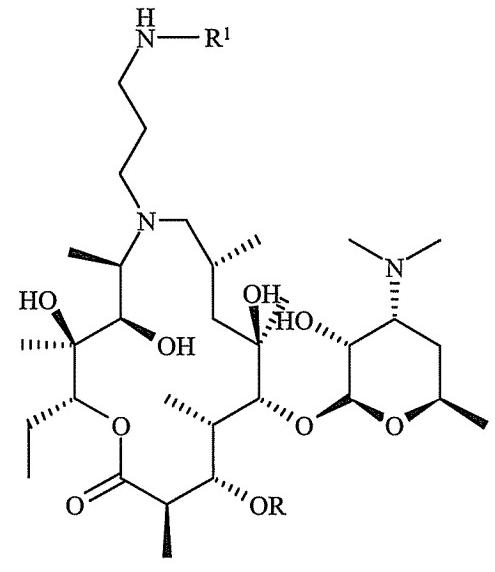
15. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents p-cyanoethyl β-cyanoethyl group, and R R² represents 4-chloro group.
16. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents p-cyanoethyl β-cyanoethyl group, and R2 R² represents 2-chloro group.
17. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents p-cyanoethyl β-cyanoethyl group, and R2 R² represents 4-fluoro group.
18. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents p-cyanoethyl β-cyanoethyl group, and R2 R² represents 4-methyl group.
19. (Currently amended) Substance A compound according to claim 1, characterized in that R represents cladinosyl group, R1 R¹ represents p-cyanoethyl β-cyanoethyl group, and R2 R² represents 2-methyl group.
20. (Currently amended) Substance A compound according to claim 1, characterized in that R and R² represent H, and R1 R¹ represents p-cyanoethyl β-cyanoethyl group.
21. (Currently amended) Substance A compound according to claim 1, characterized in that R represents H, R1 R¹ represents -cyanoethyl β-cyanoethyl group, and R2 R² represents 4-chloro group.
22. (Currently amended) Substance A compound according to claim 1, characterized in that R represents H, R1 R¹ represents -cyanoethyl β-cyanoethyl group, and R2 R² represents 2-chloro group.
23. (Currently amended) Substance A compound according to claim 1, characterized in that R represents H, R1 R¹ represents -cyanoethyl β-cyanoethyl group, and R2 R² represents 4-fluoro group.
24. (Currently amended) Substance A compound according to claim 1, characterized in that R represents H, R1 R¹ represents -cyanoethyl β-cyanoethyl group, and R2 R² represents 4-methyl group.
25. (Currently amended) Substance A compound according to claim 1, characterized in that R represents H, R1 R¹ represents -cyanoethyl β-cyanoethyl group, and R2 R² represents 2-methyl group.

26. (Currently amended) A process for the preparation of 9a-N-[N'-(benzenesulfonyl)carbamoyl]- γ -aminopropyl] and 9a-N-[N'-(β -cyanoethyl)-N'-(benzenesulfonyl) carbamoyl- γ -aminopropyl] derivatives of 9-deoxy-9-dihydro-9a-aza-9a-homoerithromycin A and 5-O-desosaminyl-9-deoxy-9-dihydro-9a-aza-9a-homoerithronolide A of the general formula 1, a compound of formula 1,



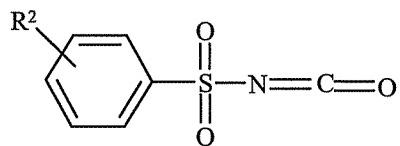
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wherein R represents H or cladinosyl group, R¹ R¹ represents H or β -cyanoethyl group, and R R² represents a substituent selected from the group consisting of H, fluoro or chloro and methyl group, characterized in that comprising 9a-N-(γ -aminopropyl) and 9a-N-[N'-(β -cyanoethyl)- γ -aminopropyl] derivatives of 9-deoxy-9-dihydro-9a-aza-9a-homoerithromycin A and 5-O-desosaminyl-9-deoxy-9-dihydro-9a-aza-9a-homoerithronolide A of the general formula 2 comprising reacting a compound of formula 2,



2

wherein R represents H or cladinosyl group and R¹ represents H or β -cyanoethyl group is reacted with substituted phenylsulfonylisocyanate general formula 3-3 of formula 3



3

wherein R2 R² represents H, chloro, fluoro and or methyl group, in toluene, xylene or some other aprotic solvents, at a temperature 0°-110°C to form a compound of formula 1 wherein R represents H or cladinosyl group, R¹ represents H or β -cyanoethyl group, and R² represents a substituent selected from the group consisting of H, fluoro, chloro and methyl group, and then, if appropriate, to a reaction with inorganic or organic acids.

27. (Currently amended) A Pharmaceutical composition comprising a pharmaceutically acceptable carrier and an antibacterially effective amount of the substances a compound according to claim 1.

28. Cancelled

29. (New) A method for inhibiting bacterial growth in vitro on a surface or in a substance comprising applying to said surface or substance a bactericidally effective amount of a compound according to claim 1.
30. (New) The method of claim 29 wherein the surface is selected from the group consisting of a wall, a room, and a medical instrument.
31. (New) The method of claim 29 wherein the substance is selected from the group of wall coatings and wooden coatings.